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firmation. The variable velocity of our Sun, due to its revolving planets, has a double amplitude of only a few hundredths of a kilometer. As the work progresses, and the degree of accuracy attainable increases, we shall probably find that there is a regular gradation of double amplitudes from that of the Sun up to those of the spectroscopic binaries already discovered, and it is possible that the star which is not a spectroscopic binary will prove to be the rare exception.

Acknowledgements are due to Messrs. WRIGHT and REESE for continued efficient assistance in the line of sight work.

July 1, 1902. W. W. CAMPBELL.

GIFT TO THE LICK ORSERVATORY.

Mr. D. O. MILLS has again shown his interest in astronomical work by providing the sum of one thousand dollars to defray the expenses of reconstructing the Mills spectrograph. Dr. REESE has designed the new mounting. It will be constructed as far as possible of steel, and will include improvements suggested by our six years' experience with the Mills spectrograph.

W. W. CAMPBELL.

January, 1902.

GIFT TO THE LICK OBSERVATORY.

The thoughtful generosity of Mrs. PHŒBE A. HEARST, Regent of the University of California, has increased the available resources of the Lick Observatory for the calendar year 1902 to the extent of twenty-five hundred dollars. This sum is to be devoted to equipment purposes, and the efficiency of several of our departments will be greatly increased thereby.

June 12, 1902. W. W. CAMPBELL.

ANNOUNCEMENT CONCERNING ASTRONOMICAL PHOTOGRAPHS.

There has been a great demand in the past two years from institutions, investigators and teachers for copies of the Lick Observatory photographs of astronomical subjects. The unusual pressure of observational duties and the smallness of the staff has prevented compliance with these legitimate demands.

This is to announce that the Observatory is now prepared to supply lantern slides, transparencies, prints, etc., of any negatives in its collection, at moderate expense. It is assumed that such copies would be used for purposes of study and investigation; but the right to publish any or all copies without special permission from the Director of the Lick Observatory would not attach to the sale.

The collection of photographs in our possession is so extensive that it is not practicable to supply a detailed list. It includes the following subjects: The Sun; The Moon; Total Solar Eclipses (of January, 1889; December, 1889; April, 1893; January, 1898; May, 1900; May, 1901); Milky Way; Comets; Meteors; Spectra of nebulæ, comets, new stars, bright-line stars, coronas, stars for radial velocities, etc.; Crossley reflector photographs of nebulæ, star clusters, asteroids, etc., and of the nebulosity surrounding *Nova Persei;* Buildings, instruments, and views at the Lick Observatory; Miscellaneous.

Orders and inquiries may be addressed to the Director.

July 1, 1902. W. W. CAMPBELL.

NOTE ON THE SPECTRUM OF *NOVA PERSEI.*

Spectrograms of *Nova Persei* were secured at intervals during the fall and winter, up to January 7th. The spectrum remained, without appreciable change, as described by us in *Bulletin* No. 8. In that publication attention was called to the presence of the fine dark H calcium absorption-line; and the opinion was ventured that perhaps the corresponding K line was "absent only by reason of the fact that there the calcium vapor has nothing to absorb." To test this point, Mr. WRIGHT made a long exposure, sufficient to record the continuous spectrum in the H and K region. The fine dark K line is present.

In this connection it would be exceedingly interesting to know whether the absorption-lines of calcium, sodium, and other elements would be detected in the spectra of well-known gaseous nebulæ,—the exposures being long enough to record the continuous portions of their spectra.

W. W. CAMPBELL.
July 1, 1902. W. H. WRIGHT.

D. O. MILLS EXPEDITION TO THE SOUTHERN HEMISPHERE.

The 37¼-inch Cassegrain reflecting-telescope mirror, to be used by the Mills Expedition in determining the radial veloc-